



G601 Direct Vent Gas Fireplace Heater

INSTALLATION AND OPERATING INSTRUCTIONS

IMPORTANT: Before Beginning Installation, Read Instructions Carefully



WARNING: IF THE INFORMATION IN THIS MANUAL IS NOT FOLLOWED EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY, OR LOSS OF LIFE.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance

WHAT TO DO IF YOU SMELL GAS

- Open Windows.
- Do not try to ignite any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Extinguish any open flame.
- Immediately call your gas supplier from a neighbour's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

Installation and service must be performed by a qualified installer, service agency or gas supplier

CONTENTS

Description	Page #
Important Information	4
Installation Instructions	5
Clearances to Combustibles	6
Log Assembly	7
Glass Replacement	7
Glass Cleaning	8
Venting Installation Procedure	8
Venting Instructions	9
Safety Precautions for the Installer	10
Parts List #1	10
Planning Your Installation	11
Horizontal Installation	13
Vertical Termination	16
Cathedral Ceiling Installation	19
General Maintenance	20
For Your Safety, Read Before Lighting	21
Lighting Instructions	22
To Turn Off Gas To Appliance	23
Maintenance Instruction	23
Parts Diagram	24
Parts List	25
Fan Installation Instructions	26, 27
Trouble Shooting	28, 29
Warranty	30

"WARNING:" IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE INJURY OR PROPERTY DAMAGE. REFER TO THIS MANUAL FOR ASSISTANCE OR FOR ADDITIONAL INFORMATION CONSULT A QUALIFIED INSTALLER, SERVICE AGENCY, OR GAS SUPPLIER.

IMPORTANT INFORMATION

- Study these instructions carefully and completely before installation.
- Installation must conform to Local Codes, or, in the absence of Local Codes, with the Current National Fuel Gas Code. ANSI Z223.1 (USA); Canadian installation must follow CAN/CGA-B149-1 or 2 (Latest Edition).
- Maintain clearances for servicing and proper operation. (See Clearance Section)

DANGER: OPERATION OF THIS APPLIANCE ON GASES FOR WHICH IT IS NOT EQUIPPED MAY LEAD TO CARBON MONOXIDE POISONING.

The maximum gas input rate is 28,000 BTU/hr (Natural Gas), 26,000 BTU/hr (Propane/LP). The minimum gas input rate is 21,000 BTU/hr (Natural Gas), 19,000 BTU/hr (Propane/LP).

This heater is equipped with controls and orifices for only the type of gas on the rating plate. Do not attempt to convert the heater for use with another type of gas.

WARNING: CONVERTING THIS APPLIANCE FOR USE WITH ANY GAS OTHER THAN THAT FOR WHICH IT IS FACTORY EQUIPPED MAY LEAD TO PERSONAL INJURY OR DEATH.

DANGER: OPERATION OF THIS APPLIANCE ON LP GAS WITHOUT AN APPROVED REGULATOR AT THE SUPPLY CONTAINER WILL LEAD TO GAS LEAKS AT THE CONTROL WITH A POSSIBILITY OF FIRE OR EXPLOSION.

CAUTION: LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION.

"VERIFY PROPER OPERATION AFTER SERVICING."

WARNING: DO NOT OPERATE THE APPLIANCE WITH THE GLASS PANEL REMOVED, CRACKED OR BROKEN. REPLACEMENT OF THE PANEL SHOULD BE DONE BY A LICENSED OR QUALIFIED SERVICE PERSON.

DUE TO HIGH TEMPERATURES, THE APPLIANCE SHOULD BE LOCATED OUT OF TRAFFIC AND AWAY FROM FURNITURE AND DRAPERIES.

ANY PARTS REMOVED FOR SERVICING THE APPLIANCE MUST BE REPLACED PRIOR TO OPERATING THE APPLIANCE.

CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARD OF HIGH SURFACE TEMPERATURE AND SHOULD BE KEPT AWAY TO AVOID BURNS OR CLOTHING IGNITION.

YOUNG CHILDREN SHOULD BE CAREFULLY SUPERVISED WHEN THEY ARE IN THE SAME ROOM WITH THE APPLIANCE.

DO NOT PLACE CLOTHING OR OTHER FLAMMABLE MATERIAL ON OR NEAR THE APPLIANCE.

INSTALLATION AND REPAIR SHOULD BE DONE BY A QUALIFIED SERVICE PERSON.

THE APPLIANCE SHOULD BE INSPECTED BEFORE USE AND AT LEAST ANNUALLY BY A PROFESSIONAL SERVICE PERSON. MORE FREQUENT CLEANING MAY BE REQUIRED DUE TO EXCESSIVE LINT FROM SOME CARPETING, BEDDING MATERIAL, ETC. IT IS IMPERATIVE THAT CONTROL COMPARTMENTS, BURNERS AND CIRCULATING AIR PASSAGEWAYS OF THE APPLIANCE BE KEPT CLEAN.

WARNING: ANY CHANGE TO THIS APPLIANCE OR ITS CONTROLS CAN BE DANGEROUS.

IT IS IMPERATIVE THAT THE CONTROL COMPARTMENT BURNER, AND CIRCULATING AIR PASSAGEWAYS BE KEPT CLEAN AND CLEAR. PROVIDE FOR ADEQUATE COMBUSTION AND VENTILATION AIR. PROVIDE ADEQUATE CLEARANCES AROUND AIR OPENINGS AND ADEQUATE ACCESSIBILITY CLEARANCE FOR SERVICE AND PROPER OPERATION. NEVER OBSTRUCT THE FRONT OPENING OF THE APPLIANCE OR THE VENT TERMINATION ON THE EXTERIOR OF THE BUILDING.

INSTALLATION INSTRUCTIONS

The appliance; when installed must be electrically connected and grounded in accordance with local codes or, in the absence of local codes, with the current CSA C22-1 Canadian Electrical Code (Canada) or the National Electrical Code ANSI/NFPA 70-latest edition (USA).

Keep appliance area clear and free from combustible materials, gasoline, and other flammable liquids and vapours.

Installation and provision for combustion and ventilation air must conform with local codes or, in absence of local codes, with the National Fuel Gas Code, ANSI Z223.1 - latest edition - in the United States or, in Canada, with the current CAN/CGA - B149 - 1 or 2 Installation Code.

Turn gas supply on and check for leaks. DO NOT USE OPEN FLAME. Use soap and water solution.

Do not use this appliance if any part has been under water.

Immediately call a qualified service technician to inspect the room appliance and to replace any part of the control system and any gas control which has been under water.

The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of the gas supply piping system at test pressures in excess of 1/2 p.s.i.g. (3.5 KPa).

The appliance must be isolated from the gas supply piping system by closing its individual manual shut off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 p.s.i.g. (3.5 KPa).

Gas piping must be installed in accordance with local codes, or with the latest edition of the National Gas Code ANSI Z223.1 (U.S.A.). (In Canada - CAN/CGA-B149-1 or 2.) During pressure testing of the gas piping system supply the heater disconnect or isolate the heater from the piping system. The pressure used to test piping systems will damage the controls used on this heater. Do not use flexible hose.

Unions in gas lines should be of the ground joint type. Compounds used on threaded joints of gas piping must be resistant to the action of liquefied petroleum gas.

Gas piping must be of sufficient size to provide a minimum natural gas pressure at the appliance of 4.5 inches water column for natural gas or 11 inches for Propane/LP gases for the purpose of input adjustment. The maximum inlet gas pressure to the heater must not exceed 10.5 inches for natural gas and 13 inches for Propane/LP gases. If this heater is to be supplied with LP gas (bottled propane) the tank or bottle supplying the gas must have a regulator which reduces the gas pressure to between 11 and 13 inches water column. The control will not operate with gas line pressure directly from the tank and may leak gas due to this excessive pressure.

Include a manual shut-off device and union in the line so the control or heater may be disconnected for servicing. Include a drip leg and a plugged 1/8 inch NPT tapping in the line. The tapping must be accessible for test gauge connection immediately upstream of the gas supply connection to the appliance.

Use a soap/water solution or a liquid gas leak detector to coat each joint in the piping system, and look for bubbles which indicates gas leaks.

Important: All references to silconing should be adhered to. Always use 600°F (316°C) high temperature silicone.

CLEARANCES TO COMBUSTIBLES

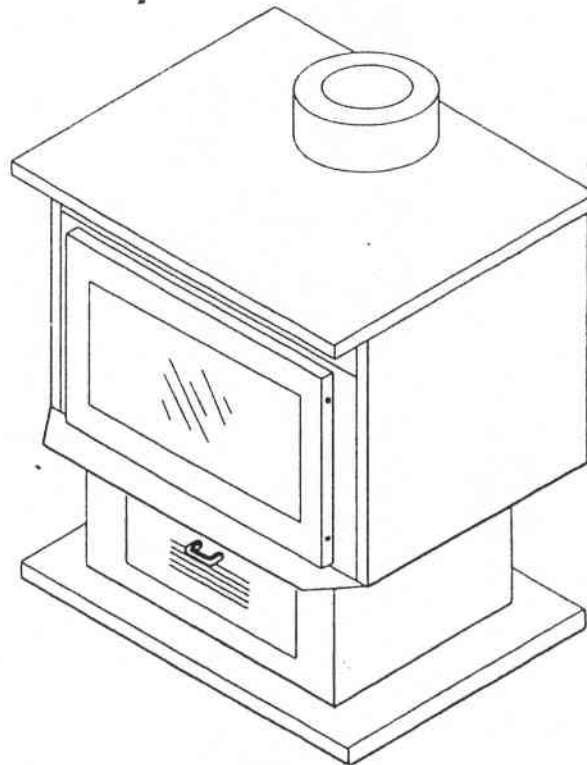
For the purpose of orientation, the left and right sides of this appliance are determined when facing the front of the appliance.

Combustion and ventilation air should not be obstructed.

TOP

LEFT SIDE

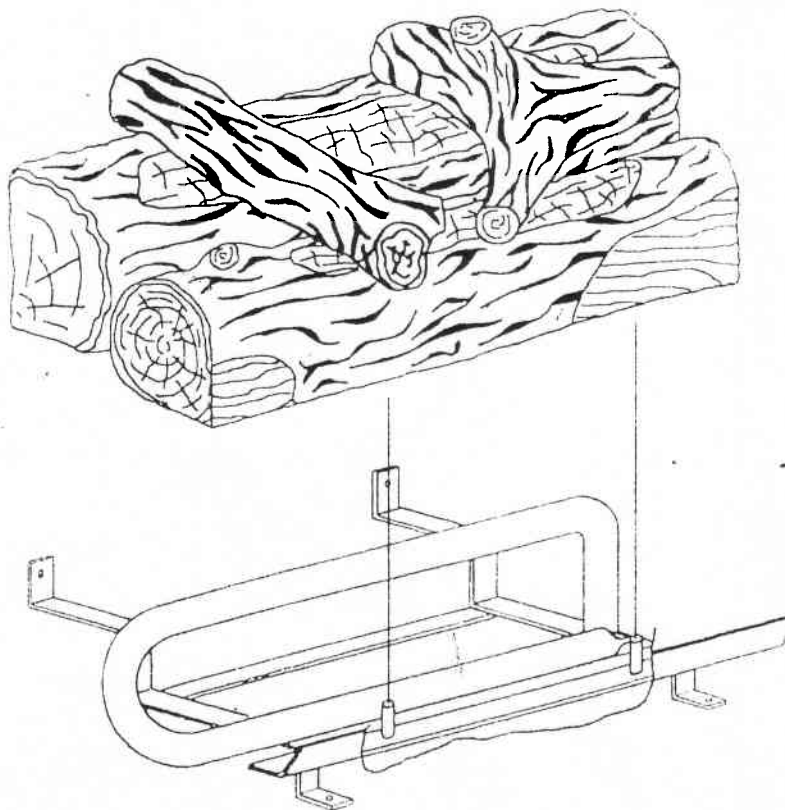
RIGHT SIDE



LEFT SIDE	—	6"
RIGHT SIDE	—	6"
BACK	—	6"
TOP	—	24"
FRONT	—	36"
FLOOR	—	0"
REAR CORNER	—	4"

NOTE: When installed directly on carpeting, tile or other combustible material other than wooden flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the appliance.

LOG ASSEMBLY



IMPORTANT: The logs **MUST** be placed exactly as shown. If there is any evidence of carbon, or blackening on the logs, they may be incorrectly placed. Refer to log assembly diagram for correct method.

GLASS REPLACEMENT

WARNING: USE ONLY MANUFACTURER SUPPLIED REPLACEMENT PARTS GLASS PANEL. (SEE PARTS LIST) ASSEMBLY SHALL BE REPLACED AS A COMPLETE UNIT. DO NOT USE SUBSTITUTE MATERIALS OR CUT THE GLASS PANEL.

1. Turn off pilot.
2. Remove four screws in door trim and remove the trim.
3. Remove the 8 screws from the glass panel.
4. Remove the panel from the unit and lay it on a padded flat surface.
5. Lift the glass frame pieces and glass out of the door frame. **NOTE: Broken glass is extremely sharp. Take caution when removing, we recommend using leather gloves and safety glasses when performing this task.**
6. Lay a thin bead of silicone (600°F+) around the frame.
7. Place glass firmly in the frame and allow 1 hour to dry.
8. Check again that the glass is correctly installed in the door frame.
9. Reinstall the door by replacing six screws. Tighten firmly.
10. Re-attach the outer trim.
11. Relight pilot and check main burners operation.

WARNING: GLASS PANEL MUST BE INSTALLED DURING OPERATION. NEVER OPERATE IT WITH BROKEN GLASS OR WITH GLASS PANEL OFF AS THIS COULD LEAD TO DANGEROUS INDOOR AIR POLLUTION. DO NOT ABUSE DOOR GLASS, SUCH AS DROPPING THE GLASS OR STRIKING THE GLASS.

GLASS CLEANING

WARNING: DO NOT CLEAN GLASS WHEN HOT.

1. Turn off pilot.
2. Remove four screws in door trim and remove.
3. Remove 8 screws in center glass panel and remove panel.

WARNING: DO NOT USE ABRASIVES ON GLASS SURFACE.

4. With a soft rag or paper towel use regular glass cleaner, spray the glass cleaner on glass surface and wipe off until surface is dry.
5. Replace door by reversing the operation to remove door.
6. Relight pilot and check main burners operation.

VENTING INSTALLATION PROCEDURE

SEE VENTING INSTRUCTIONS

READ ALL INSTRUCTIONS COMPLETELY AND THOROUGHLY BEFORE ATTEMPTING INSTALLATION. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY, PROPERTY DAMAGE OR LOSS OF LIFE.

NOTE: THE VENT TERMINAL MAY BE PAINTED WITH 450°F (232°C) HEAT RESISTANT PAINT TO COORDINATE WITH THE EXTERIOR FINISH.

NOTE: VENTING HAS A ONE INCH CLEARANCE TO COMBUSTIBLES.

NOTE: REFER TO GRAPH ON PAGE 11 (FIG.1) FOR INSTALLATION VARIABLES.

NOTE: AFTER ANY MAINTENANCE REQUIRING DISCONNECTION OF VENTING, HIGH TEMPERATURE SILICONE MUST BE USED TO RE-SEAL ALL CONNECTIONS.

SEAL ALL OF THE CONNECTIONS WITH HIGH TEMPERATURE SILICONE (600°F (316°C) EVERY TIME A VENT CONNECTION IS MADE.

BEFORE JOINING ELBOWS AND PIPES APPLY A BEAD OF HIGH TEMPERATURE SILICONE SEALANT (GE RTV 106/LOCTITE RTV 81585) TO END OF ELBOW OR PIPE. ENSURE THAT ALL EXCESS SEALANT IS CAREFULLY CLEANED OFF THE EXTERIOR PIPES AS THESE PIPES ARE VISIBLE ONCE THE INSTALLATION IS COMPLETE.

OPERATION OF IMPROPERLY INSTALLED AND MAINTAINED VENTING SYSTEM COULD RESULT IN SERIOUS INJURY, PROPERTY DAMAGE OR LOSS OF LIFE.

VENTING INSTRUCTIONS

THESE INSTRUCTIONS APPLY TO THE SIMPSON DURA-VENT DIRECT VENT SYSTEM USED WITH THE CENTURY HEATING G601.

IMPORTANT: Read all instructions carefully before starting the installation. Failure to follow these instructions may create a fire or other safety hazard, and will void the warranty. Be sure to follow these installation instructions for specific venting and clearance to combustible requirements, which may vary from one appliance to another.

INSTALLATION PRECAUTIONS:

The Century Heating G601 is an engineered product that has been designed and tested. The warranty will be voided, and serious fire, health, or other safety hazards may result from any of the following actions.

- Installation of any damaged venting component.
- Unauthorized modification of the venting system.
- Installation of any component part not manufactured or approved by Century Heating.
- Installation other than as instructed by these instructions.

Consult your local building codes before beginning the installation.

- WARNING:**
- *Always maintain required clearances (air spaces) to nearby combustibles to prevent a fire hazard. Do not fill air spaces with insulation.* Be sure to check these instructions for minimum clearance requirements between the outer walls of the vent pipe and nearby combustible surfaces. Be sure to check the vent termination clearance requirements from decks, windows, soffits, gas regulators, air supply inlets, and public walkways, as specified in these installation instructions and local building codes.
 - *The gas appliance and vent system must be vented directly to the outside of the building, and never be attached to a chimney serving a separate solid fuel or gas-burning appliance. This direct vent gas appliance must use its own separate vent system. Common vent systems are prohibited.*

SAFETY PRECAUTIONS FOR THE INSTALLER

- Wear gloves and safety glasses for protection.
- Exercise extreme caution when using ladders or on roof tops.
- Be aware of electrical wiring locations in walls and ceilings.

PARTS LIST #1

The Simpson Dura-Vent Direct Vent System offers a complete line of component parts for installation of both horizontal and vertical installations. Many items are offered in decorative black, as well as galvanized finish. The galvanized pipe and fittings are used for concealed locations such as attics, or spaces where corrosion is a factor, such as above the roofline. Decorative brass or chrome trim kits are available for both wall thimbles and ceiling support boxes. Snorkel terminations are available for applications which may require vertical rise on the building exterior. The components listed below have been approved for use with the Century Heating G601.

Number	Description	Number	Description
908B	6" Pipe Length, Black	940	Round Support Box/Wall Thimble
907B	9" Pipe Length, Black	941	Cathedral Ceiling Support Box
906	12" Pipe Length	943	Flashing, 0/12 to 6/12 Roof Pitch
906B	12" Pipe Length, Black	943S	Flashing, 7/12 to 12/12 Roof Pitch
904	24" Pipe Length	953	Storm Collar
904B	24" Pipe Length, Black	963	Ceiling Firestop
903	36" Pipe Length	988	Wall Strap
903B	36" Pipe Length, Black	981	Snorkel Termination (36")
902	48" Pipe Length	982	Snorkel Termination (14")
902B	48" Pipe Length, Black	984	Horizontal Square Termination
911B	11" to 14-5/8" Pipe, Adjustable, Black	983	Vertical Termination
945	45° Elbow	950	Vinyl Siding Standoff
945B	45° Elbow, Black		
990	90° Elbow		
990B	90° Elbow, Black		

STARTER KIT "A" — Horizontal Termination Part #971 Kit Includes:

- 90° Black Elbow Wall Thimble
- Horizontal Termination Cap
- 24" Black Pipe
- 11" - 14-5/8" Adjustable Black Pipe

PLANNING YOUR INSTALLATION

FIGURE 1

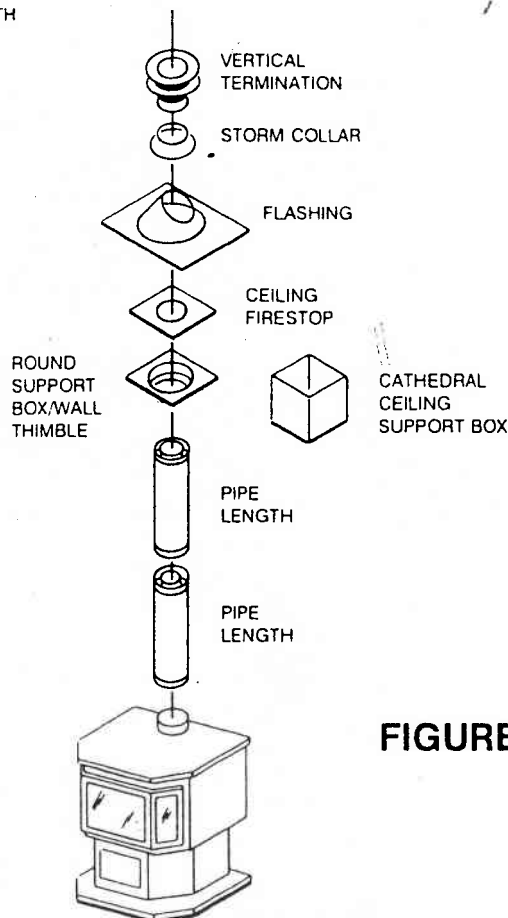
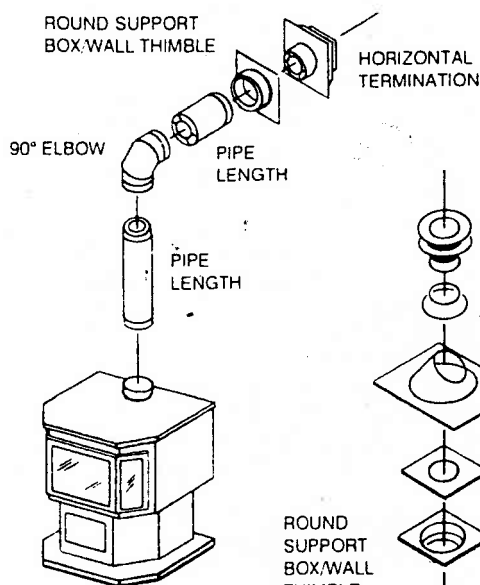


FIGURE 2

THERE ARE TWO BASIC TYPES OF DIRECT VENT SYSTEM INSTALLATION:

- 1) **Horizontal Termination (Fig. 1)**
- 2) **Vertical Termination (Fig. 2)**

When planning your installation, it will be necessary to select the proper length of vent pipe for your particular requirements. It is important to note the wall thickness. Select the amount of vertical rise desired for "vertical - to - horizontal" type installations. To determine the length of vent pipe required for vertical installations, measure the distance from the appliance flue outlet to the ceiling, the ceiling thickness, the vertical rise in an attic or second story, and allow for sufficient vent height above the roofline. For two-story applications, firestops are required at each floor level. If an offset is needed in the attic, additional pipe and elbows will be required.

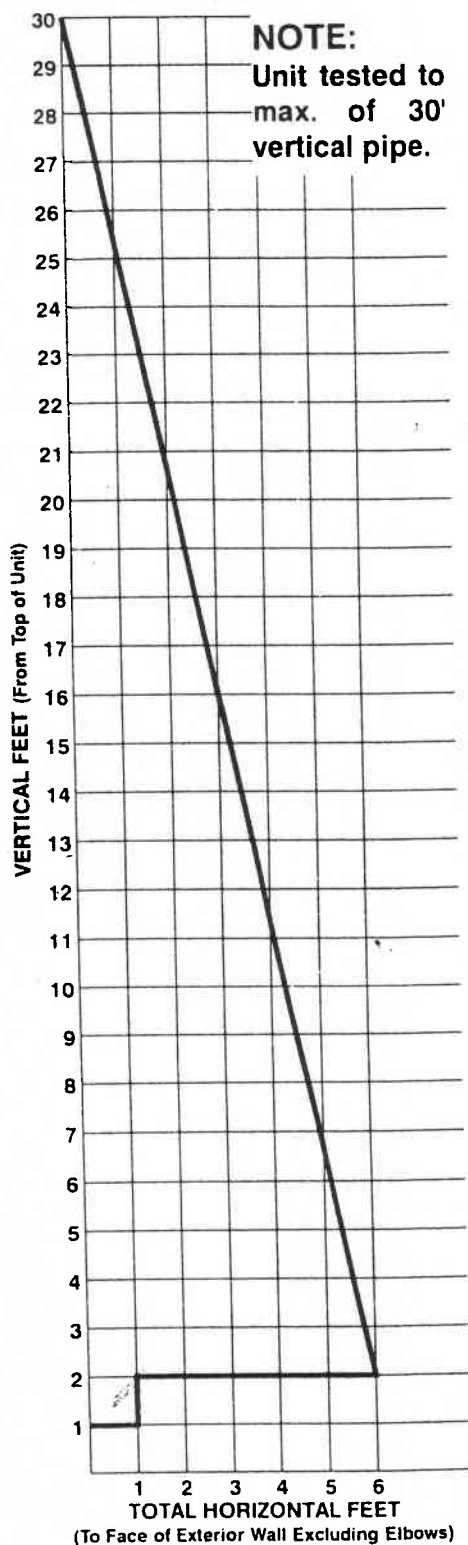


FIG. 1

The maximum number of 90 degree elbows permitted per side wall installation is one (1).

The maximum number of 45 degree elbows permitted per side wall installation is one (1).

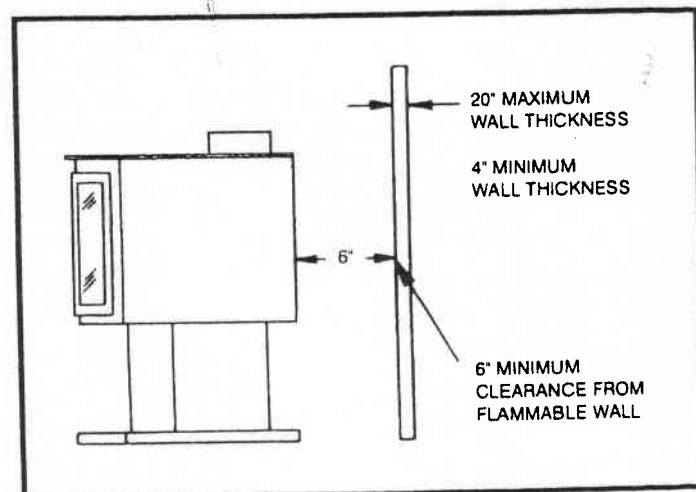
On Vertical installations two (2) 45° elbows are allowed.

The Century Heating G601 has been tested for a minimum 1' rise with a maximum 1' horizontal run.

This includes stove clearances and wall thickness.

The maximum horizontal run is 6' with 2' vertical rise.

To vent this unit within these dimensions please refer to chart figure 1.



Since it is very important that the venting system maintain its balance between the combustion air intake and the flue gas exhaust certain limitations as to vent configurations apply and must be strictly adhered to.

The graph showing the relationship between vertical and horizontal side wall venting will help to determine the various vent lengths allowable.

HORIZONTAL INSTALLATION

Step 1. Set the appliance in it's desired location. Check to determine if wall studs or roof rafters are in the way when the venting system is attached. If this is the case, you may want to adjust the location of the appliance.

Step 2. Vent pipe and fittings are designed with special twist-lock connections. Assemble the desired combination of black pipe and elbows to the appliance adaptor with pipe seams oriented towards the wall or floor, as much out of view as possible.

NOTE:

- 1) Twist-lock procedure: Four indentations, located on the female ends of pipes and fittings, are designed to slide straight onto the male ends of adjacent pipes and fittings, by orienting the four pipe indentations so they match and slide into four entry slots on the male ends (Fig. 5). Push the pipe sections completely together, then twist-lock one section clockwise approximately one-quarter turn, until the two sections are fully locked. The female locking lugs will not be visible from the outside, on the black pipe or fittings. They may be located by examining the inside of the female ends.
- 2) Horizontal runs of vent must be supported every three feet. Wall Straps are available for this purpose.

Step 3. With pipe attached to the stove, slide the stove into it's correct location, insuring minimum clearances to combustibles and mark the wall for a 10-inch square hole. The centre of the square hole should line up with the center-line of the horizontal pipe, as shown in Figure 6. Cut and frame the 10-inch square hole in the exterior wall where the vent will be terminated. If the wall being penetrated is constructed of non-combustible material, i.e. masonry block or concrete, a 7-inch diameter hole is acceptable.

FIG. 4

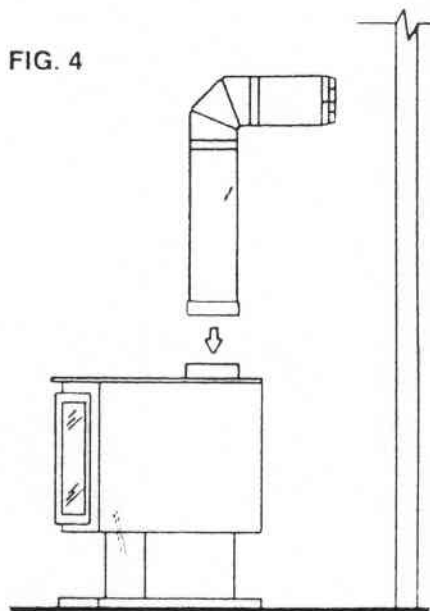


FIG. 5

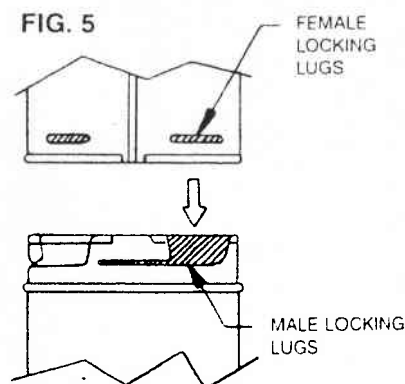
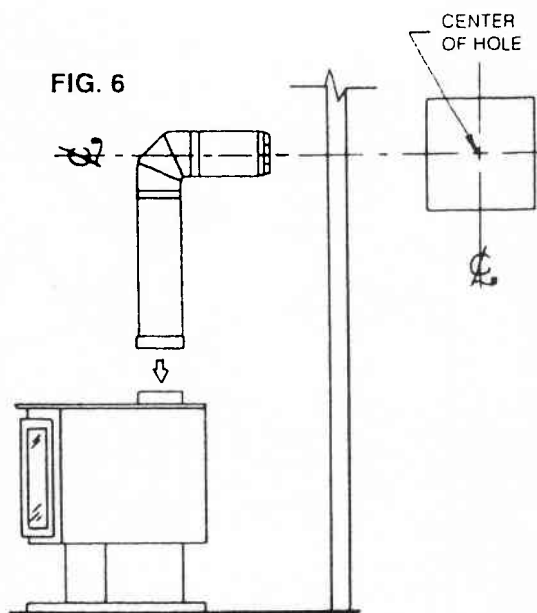


FIG. 6

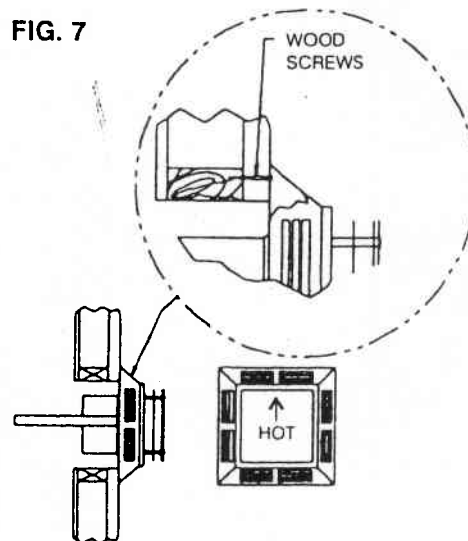


NOTE:

- 1) The horizontal run of vent must be level, or have a 1/4-inch rise for every 1 foot of run towards the termination. Never allow the vent to run downward. This could cause high temperatures and may present the possibility of a fire.
- 2) The location of the horizontal vent termination on an exterior wall must meet all local and national building codes, and must not be easily blocked or obstructed. The vent terminal shall not be recessed into a wall or siding. Refer to Fig. 3.
- 3) For installations requiring a vertical rise on the exterior of the building, 14-inch and 36-inch tall Snorkel Terminations are available. Follow the same installation procedures as used for standard Horizontal Terminations. If the Snorkel Termination must be installed below grade, (i.e. basement applications), proper drainage must be provided to prevent water from entering the Snorkel Termination. Do not back fill around the snorkel termination.

Step 4. Position the horizontal vent termination in the centre of the 10-inch square hole, and attach to the exterior wall with the four wood screws provided. Before attaching the Vent Termination to the exterior wall, run a bead of non-hardening mastic around it's outside edges, so as to make a seal between it and the wall. The arrow on the vent cap should be pointing up. Insure that proper clearances to combustible materials are maintained. (Fig. 7)

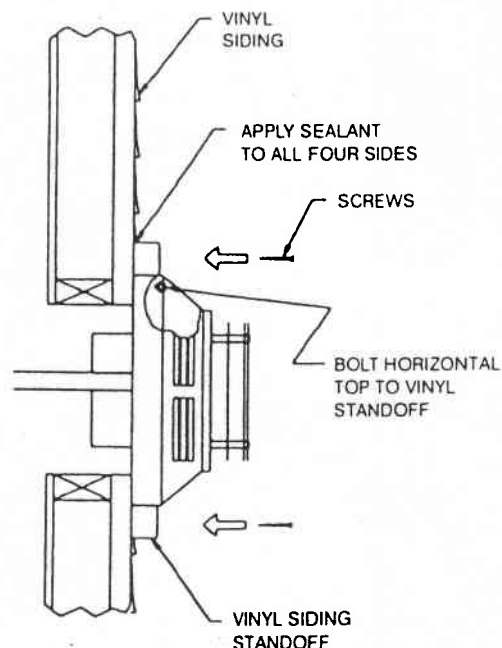
FIG. 7



NOTE:

- 1) The four wood screws provided should be replaced with appropriate fasteners for stucco, brick, concrete, or other types of siding.
- 2) For buildings with vinyl siding, a Vinyl Siding Standoff (Part 950), should be installed between the vent cap and the exterior wall. (Fig. 8) Attach the Vinyl Siding Standoff to the Horizontal Vent Termination. The Vinyl Siding Standoff prevents excessive heat from possibly melting the vinyl siding material.

FIG. 8



Step 5. Before connecting the horizontal run of vent pipe to the vent termination, slide the black decorative wall thimble cover over the vent pipe.

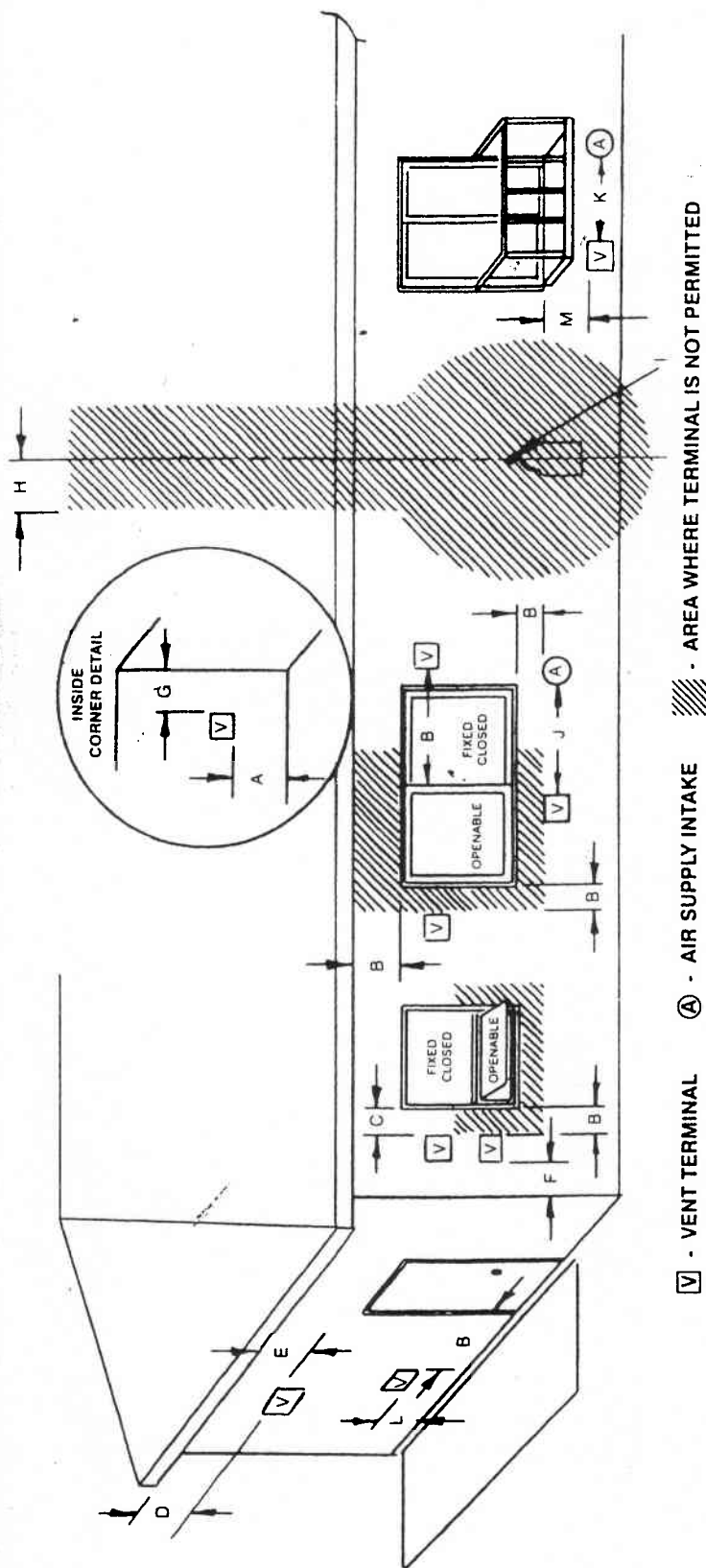


Figure 3 - Vent Terminal Locations

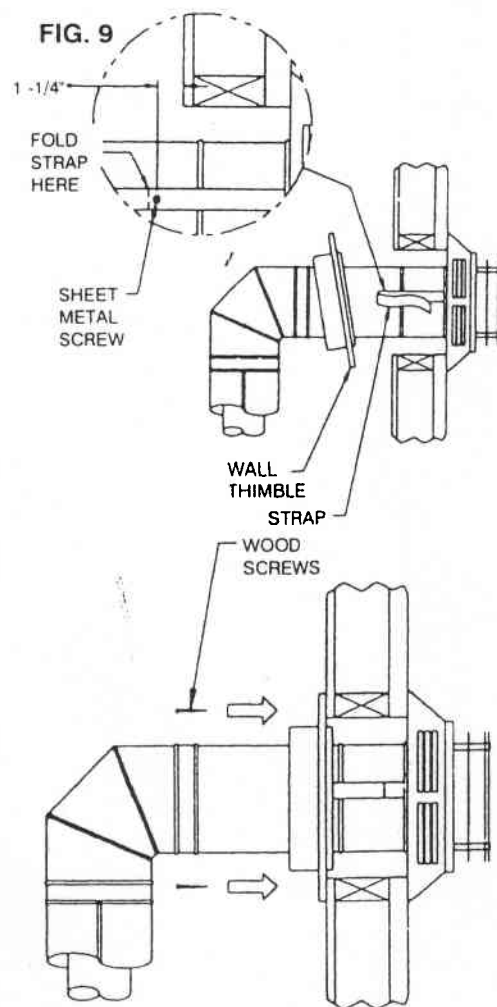
A =	clearance above grade, veranda, porch, deck, or balcony [*12 inches (30 cm) minimum]	H =	*not to be installed above a meter/regulator assembly within 3 feet (90 cm) horizontally from the centre-line of the regulator
B =	clearance to window or door that may be opened [*12 inches (30 cm) minimum for appliances ≤ 100 000 Btuh (30kW)]	I =	clearance to service regulator vent outlet [*6 feet (1.8 m) minimum]
C =	36 inches (90 cm) minimum for appliances > 100 000 Btuh (30 kW)]	J =	clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance
D =	clearance to permanently closed window [minimum 12 inches (30 cm) recommended to prevent condensation on window]	K =	[*12 inches (30 cm) minimum for appliances ≤ 100 000 Btuh (30 kW)]
E =	vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (60 cm) from the centre-line of the terminal [18 inches (46 cm) minimum]	L =	36 inches (90 cm) minimum for appliances > 100 000 Btuh (30 kW)]
F =	clearance to unventilated soffit [12 inches (30 cm) minimum]	M =	clearance to a mechanical air supply inlet [*6 feet (1.8 m) minimum]
G =	clearance to outside corner — 12 inches		clearance above paved side-walk or a paved driveway located on public property [*7 feet (2.1 m) minimum]
			clearance under veranda, porch, deck, or balcony [*12 inches (30 cm) minimum ‡]

† a vent shall not terminate directly above a side-walk or paved driveway which is located between two single family dwellings and serves both dwellings*

‡ only permitted if veranda, porch, deck, or balcony is fully open on a minimum of 2 sides beneath the floor*

* as specified in CGA B149 Installation Codes (1996) Note: Local Codes or Regulations may require different clearances

Step 6. Slide the appliance and vent assembly towards the wall, carefully inserting the vent pipe into the vent cap assembly. It is important that the vent pipe extend into the vent cap sufficient distance so as to result in a minimum pipe overlap of 1-1/4 inches. Secure the connection between the vent pipe and the vent cap by attaching the two sheet metal strips extending from the vent cap assembly into the outer wall of the vent pipe, silicone vent connection. Use the two sheet metal screws provided to connect the strips to the Pipe Section. Bend any remaining portion of the sheet metal strip back towards the vent cap, so it will be concealed by the decorative wall thimble cover. (Fig. 9)



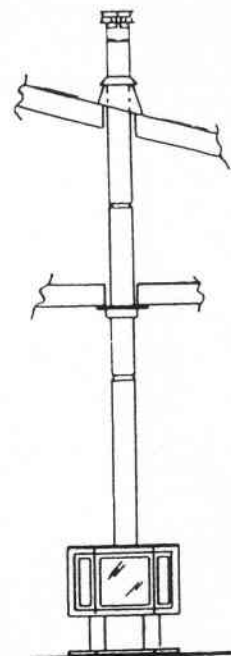
Step 7. Slide the decorative wall thimble up the wall surface and attach with screws provided. Apply decorative brass or chrome trim if desired. (Fig. 10)

VERTICAL TERMINATION

Step 1. Check these installation instructions for required clearance (air spaces) to combustibles when passing through ceilings, walls, roofs, enclosures, attic rafters, or other nearby combustible surfaces. Do not pack air spaces with insulation. Check these instructions for maximum vertical rise of the venting system, and any maximum horizontal offset limitations. Any offset must fall within the parameters of the venting graph. (Fig. 1)

Step 2. Set the gas appliance in it's desired location. Drop a plumb bob down from the ceiling to the position of the appliance flue exit, and mark the location where the vent will penetrate the ceiling. Drill a small hole at this point. Next, drop a plumb bob

FIG. 11



from the roof to the hole previously drilled in the ceiling, and mark the spot where the vent will penetrate the roof. Determine if ceiling joists, roof rafters, or other framing will obstruct the venting system. You may wish to relocate the appliance, or to offset, as shown in Fig. 13, to avoid cutting loadbearing members.

Step 3. To install the Round Support Box/Wall Thimble in a flat ceiling, cut a 10-inch square hole in the ceiling, centred on the hole drilled in Step 2. Frame the hole as shown in Fig. 12.

Step 4. Assemble the desired lengths of Black Pipe and Elbows necessary to reach from the Appliance adaptor up through the Round Support Box. Insure that all Pipe and Elbow connections are in their fully twist-locked position.

Step 5. Cut a hole in the roof centred on the small drill hole placed in the roof in Step 2. The hole should be of sufficient size to meet the minimum requirements for clearance to combustibles.

Step 6. Connect a section of pipe and extend up through hole.

FIG. 13

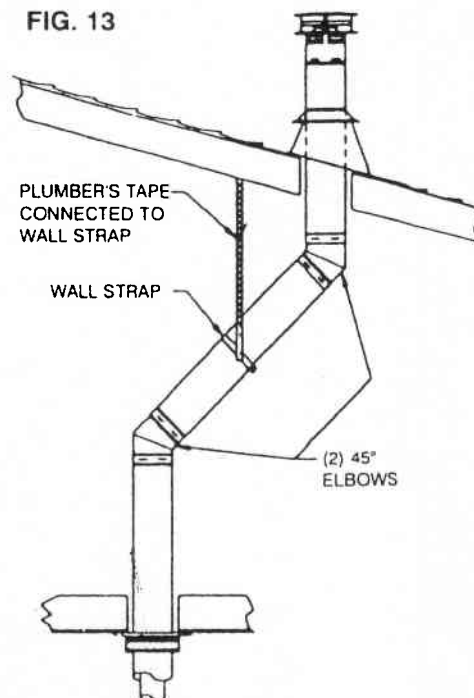
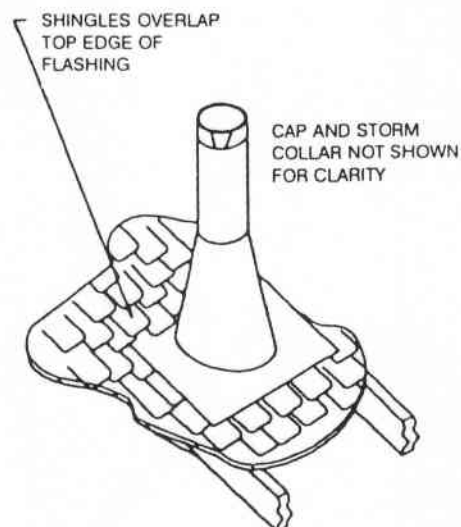


FIG. 14



NOTE:

- 1) If an offset is necessary in the attic to avoid obstructions, it is important to support the vent pipe every 3 feet, to avoid excessive stress on the Elbows, and possible separation. Wall Straps are available for this purpose. (Fig. 13)
- 2) Whenever possible, use 45° Elbows instead of 90° Elbows. The 45° Elbow offers less restriction to the flow of flue gases and intake air.

Step 7. Slip the flashing over the Pipe Section(s) protruding through the roof. Secure the base of the Flashing to the roof with roofing nails. Insure the roofing material overlaps the top edge of the Flashing as shown in Fig. 14. Verify that you have at least the minimum clearance to combustibles at the roofline.

Step 8. Continue to add Pipe Sections until the height of the Vent Cap meets the minimum building code requirements described in Fig. 15. Note that for steep roof pitches, the vent height must be increased. In high wind conditions, nearby trees, adjoining rooflines, steep pitched roofs, and other similar factors can result in poor draft, or down-drafting. In these cases, increasing the vent height may solve this problem.

Step 9. Twist lock the Vent Cap.

NOTE:

- 1) For multi-story vertical installations, a Ceiling Firestop (Part 963) is required at the second floor, and any subsequent floors. (Fig. 16) The opening should be framed to 10-inch x 10-inch inside dimensions, in the same manner as shown in Fig. 12.
- 2) Any occupied areas above the first floor, including closets and storage spaces, which the vertical passes through, must be enclosed. The enclosure may be framed and sheetrocked with standard construction materials, however consult the instructions for the minimum allowable clearance between the outside of the vent pipe, and the combustible surfaces of the enclosure. Do not fill any of the required air spaces with insulation.

FIG. 15

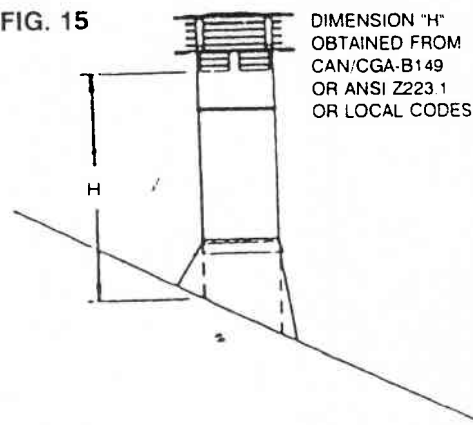
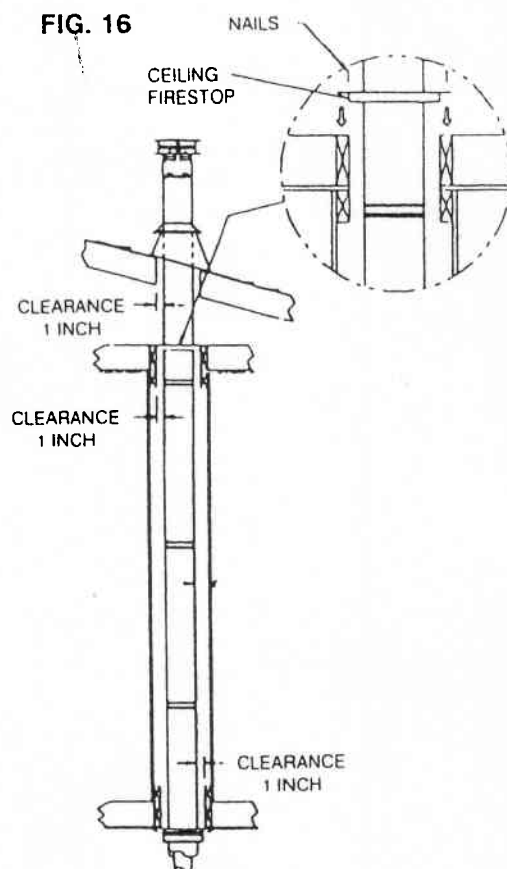


FIG. 16



CATHEDRAL CEILING INSTALLATION

Step 1. Follow installation Steps 1 and 2 under Vertical Terminations.

Step 2. Using the plumb bob, mark the centre-line of the venting system on the ceiling and drill a small hole through the ceiling and roof at this point. From the roof, locate the drill hole and mark the outline of the Cathedral Ceiling Support Box.

Step 3. Remove shingles or other roof covering as necessary to cut the rectangular hole for the Support Box. Cut the hole 1/8 larger than the Support Box outline.

Step 4. Lower the Support Box through the hole in the roof until the bottom of the Support Box protrudes at least 2 inches below the ceiling. (Fig. 17) Align the Support Box both vertically and horizontally with a level. Temporarily tack the Support Box in place through the inside walls and into the roof sheathing.

Step 5. Using tin snips, cut the Support Box from the top corners down to the roofline, and fold the resulting flaps over the roof sheathing. (Fig. 18) Before nailing it to the roof, run a bead of non-hardening mastic around the top edges of the Support Box, to make a seal between the Box and the roof. Clean out any combustible material from inside the Support Box.

Step 6. Complete the Cathedral Ceiling Installation by following the same procedures outlined in Steps 4 through 9 for Vertical Terminations.

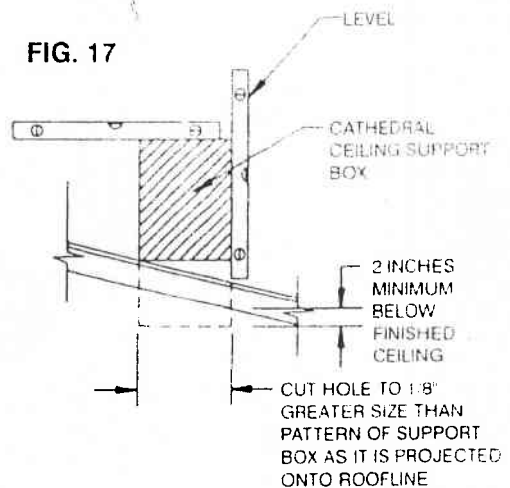
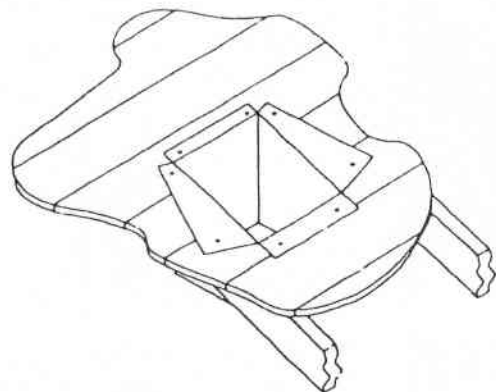


FIG. 18



GENERAL MAINTENANCE

Conduct an inspection of the venting system semiannually.

Recommended areas to inspect are as follows:

- 1. Check areas of the Venting System which are exposed to the elements for corrosion. These will appear as rust spots or streaks, and in extreme cases, holes. These components should immediately be replaced.**
- 2. Remove the Cap, and shine a flashlight down the Vent. Remove any bird nests, or other foreign material.**
- 3. Check for evidences of excessive condensate, such as water droplets forming in the inner liner, and subsequently dripping out at joints. Continuous condensation can cause corrosion of caps, pipe, and fittings. It may be caused by having excessive lateral runs, too many elbows, and exterior portions of the system being exposed to cold weather.**
- 4. Inspect joints, to verify that no Pipe Sections or Fittings have been disturbed, and consequently loosened. Also check mechanical supports such as Wall Straps, or plumbers' tape for rigidity.**

FOR YOUR SAFETY, READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result, causing property damage, personal injury or loss of life.

- A. This appliance has a piezo ignition pilot light. When lighting the pilot, follow these instructions exactly.
- B. **BEFORE LIGHTING** smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

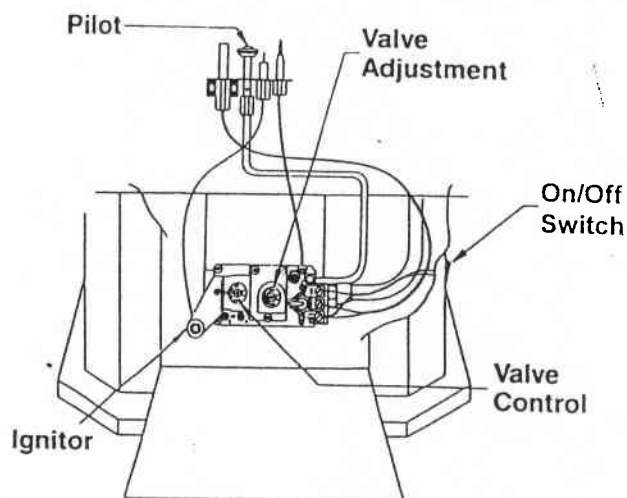
WHAT TO DO IF YOU SMELL GAS

- Do not try to light the appliance.
 - Do not touch any electrical switch; do not use any phone in your building
 - Extinguish any open flame.
 - Immediately call your gas supplier from a neighbour's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
 - D. Do not use this appliance if any part has been under water. Immediately call a qualified technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

WARNING: If you do not follow these instructions exactly, a fire or explosion may result, causing property damage, personal injury or loss of life.

LIGHTING INSTRUCTIONS

- 1) **STOP! Read the safety information.**
- 2) **Push in the gas control knob slightly and turn clockwise to "OFF" position. NOTE: Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not force.**
- 3) **Wait five (5) minutes to clear out any gas. If you then smell gas, STOP! Follow "B" in the safety information. If you don't smell gas, go to the next step.**
- 4) **Find pilot.**
- 5) **Turn knob on gas control counter clockwise ↶ to "PILOT".**



NOTE: Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not force.

***NOTE: to adjust flame height use the Lo/Hi on valve.**

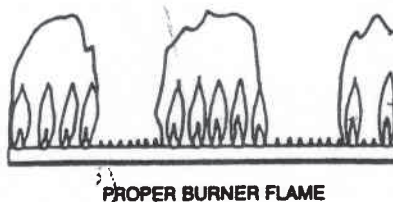
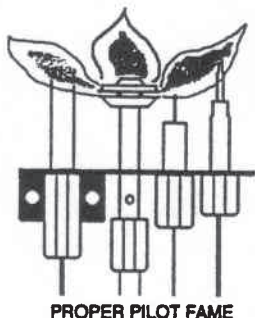
- 6) **Push in control knob all the way and hold in. Immediately light the pilot by pushing the spark ignitor button. Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 2 through 6.**
 - *If knob does not pop up when released, stop and immediately call your service technician or gas supplier.*
 - *If the pilot light will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.*
- 7) **Turn gas control counter-clockwise ↶ to "ON".**
- 8) **To light main burner only, turn rocker On/Off switch to "ON".**
- 9) **To turn off gas to main burner only, turn On/Off switch to "OFF".**

TO TURN OFF GAS TO APPLIANCE

- 1) Push in gas control knob slightly and turn clockwise  to "OFF".
Do not force.
- 2) Turn "OFF" all electrical power.

MAINTENANCE INSTRUCTION

- 1) Periodical visual checks of the pilot and burner flames should be conducted to ensure that the flame is present except when the valve control knob is in the "OFF" position.



*After preheat
Yellow - low temp
flame
Blue
→ burning
Gas*

- 2) Remove the logs from the grate assembly and vacuum any loose particles from the grate and burner areas each year.
- 3) All components (see parts list) are available directly through the manufacturer. Write or Phone:



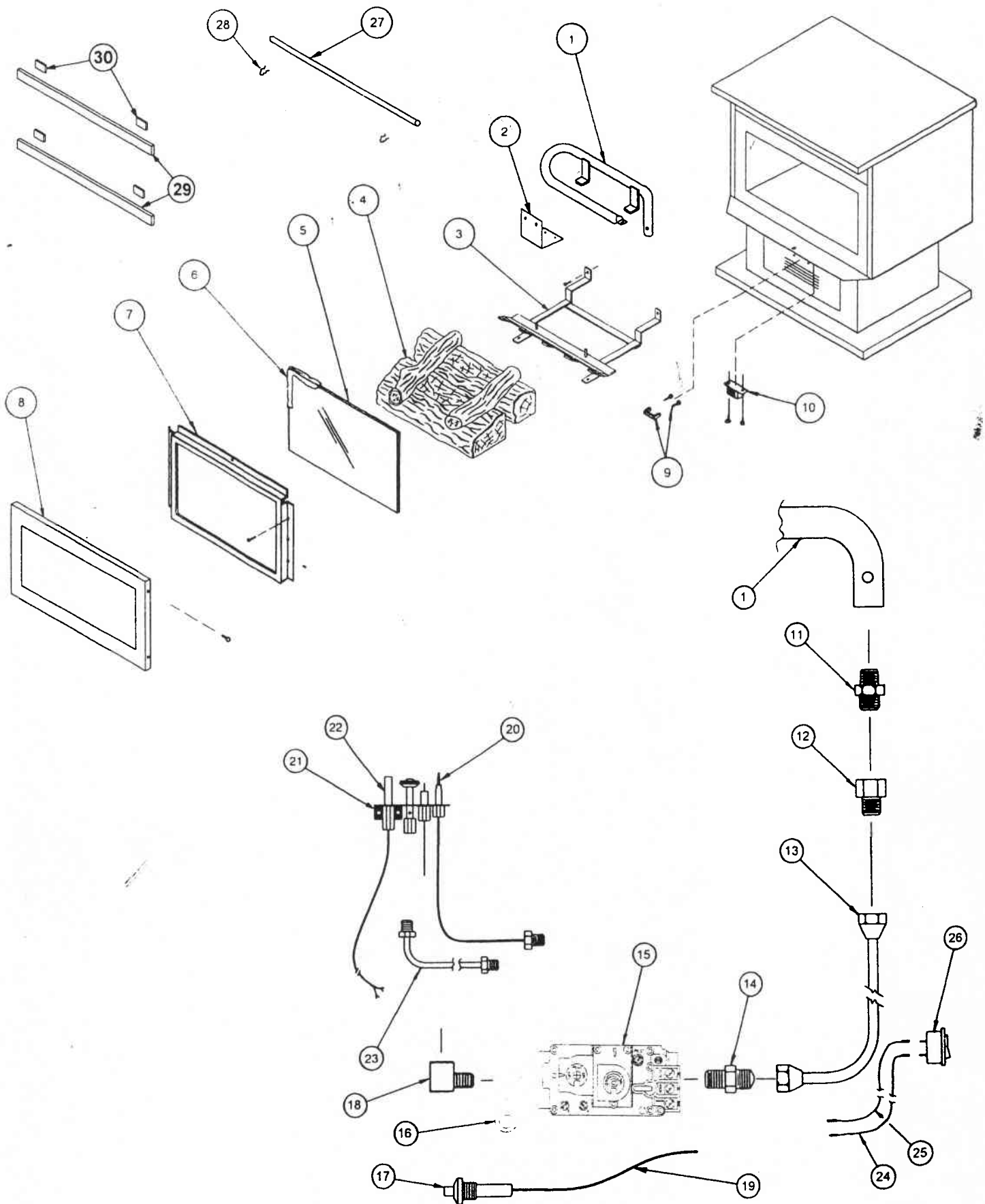
CFM Corporation
2695 Meadowvale Boulevard
Mississauga, Ontario L5N 8A3 Canada
(800) 668-5323
www.cfmcorp.com

- 4) Turn off all electrical power before servicing.
- 5) Installation and all repairs should be done by a qualified service person. The appliance should be inspected before use and at least annually by a qualified service technician. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.

MORE FREQUENT CLEANING MAY BE REQUIRED DUE TO EXCESSIVE LINT FROM CARPETING, BEDDING MATERIALS, ETC.

- 6) Visually inspect all vent pipes for corrosion, cracks and proper connections annually.
- 7) Using a soapy solution, check all gas connections, including pilot line connections, periodically for leaks.

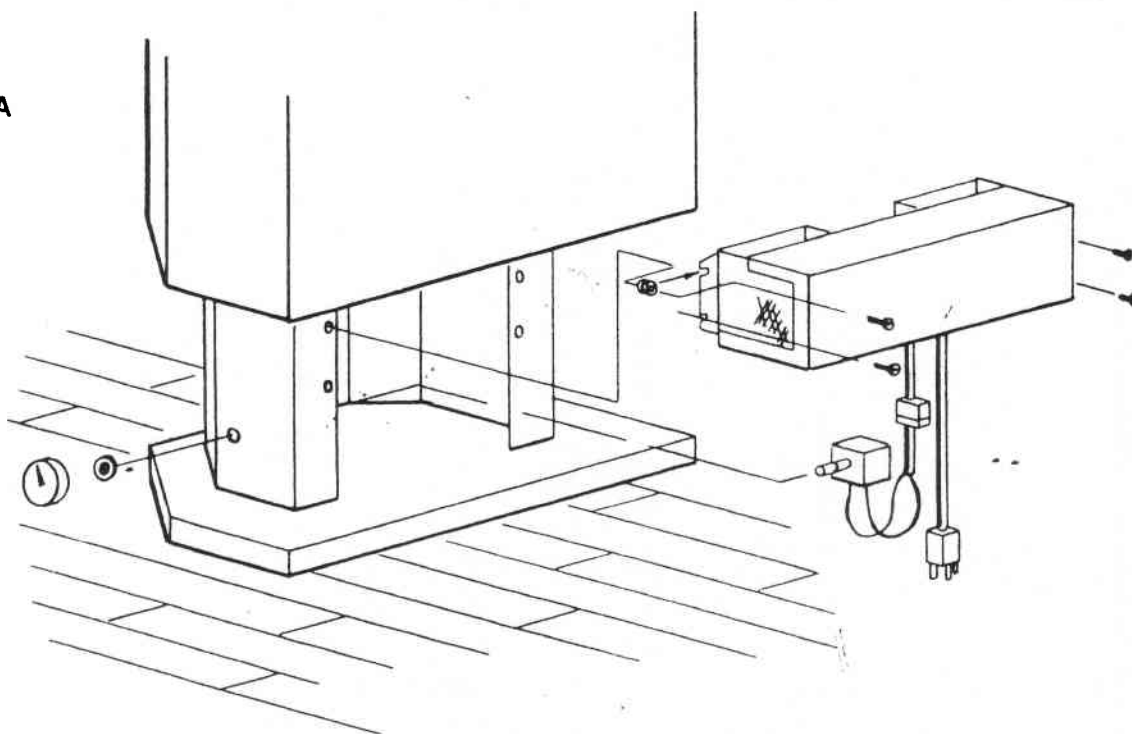
PARTS DIAGRAM



PARTS LIST

KEY NO.	DESCRIPTION	PART NO.	G601N	G601P
1	BURNER (NG)	S41342	1	—
1	BURNER (LP)	S41343	—	1
2	PILOT BRACKET	S32532	1	1
2	GRATE	S41372	1	1
4	LOG SET	S16213	1	1
5	FRONT GLASS ASSEMBLY	S10019	1	1
6	GLASS ROPE	S15013	4.7 ft.	4.7 ft.
7	GLASS FRAME	S41336	1	1
8	OUTER TRIM	S13413	1	1
9	DOOR HANDLE	S11329	1	1
10	MAGNETIC CATCH	S11308	1	1
11	ORIFICE (NG)	S11325	1	—
11	ORIFICE (LP)	S11350	—	1
12	3/8 ADAPTOR	S11314	1	1
13	GAS TUBE ASSEMBLY	S32487	1	1
14	3/8 PIPE TO 3/8-FLARE	S11313	1	1
15	VALVE (NG)	S11345	1	—
15	VALVE (LP)	S11347	—	1
16	IGNITOR BRACKET	S14107	1	1
17	PIEZO IGNITOR	S14106	1	1
18	3/8 ELBOW	S11312	1	1
19	IGNITOR WIRE	S11275	1	1
20	THERMO COUPLE	S11349	1	1
21	PILOT (NG)	S11346	1	—
21	PILOT (LP)	S11348	—	1
22	THERMOPILE	S14103	1	1
23	PILOT TUBE	S11183	1	1
24	SWITCH WIRE	S14040	1	1
25	SWITCH WIRE	S14039	1	1
26	ROCKER SWITCH	S14034	1	1
27	TRIM BAR	S32555	1	1
28	TRIM BAR CLIP	S11363	2	2
29	BRASS PLATED TRIM	S32558	2	2
30	MAGNET	S32571	4	4

FIG. A



fan installation instructions (optional fan kit #S31192)

1. Remove fan from carton.
2. Using four screws provided attach fan to stove as shown above. Be sure to install rubber gromets as shown above.
3. Speed control switch is to be inserted into pedestal, as shown, and tighten until secure.
4. Snap variable speed control knob into place.
5. Plug fan in.

CAUTION - "Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation."
"Verify proper operation after servicing."

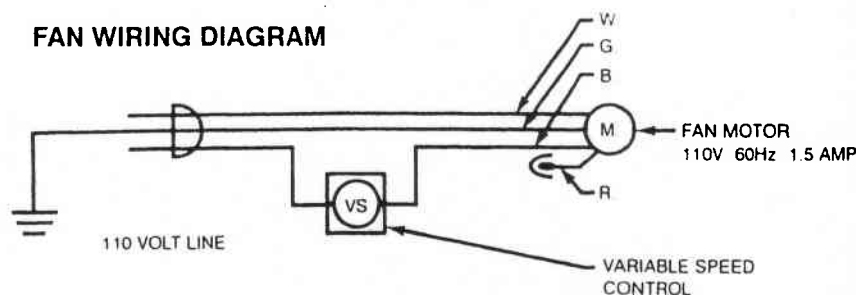
WARNING

Electrical Grounding Instructions

This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle.

Do not cut or remove the grounding prong from this plug.

FAN WIRING DIAGRAM



Original wiring that is replaced must be replaced with wire having at least a 105°C temperature rating.

Key#	Part Number	Description	Qty.
1	S41225	Fan Case Weld't - G400	1
2	S41059	Motor Assy - G300	1
3	S14003	Speed Control Switch	1
4	S14005	Power Cord	1
5	S14009	Speed Control Knob	1

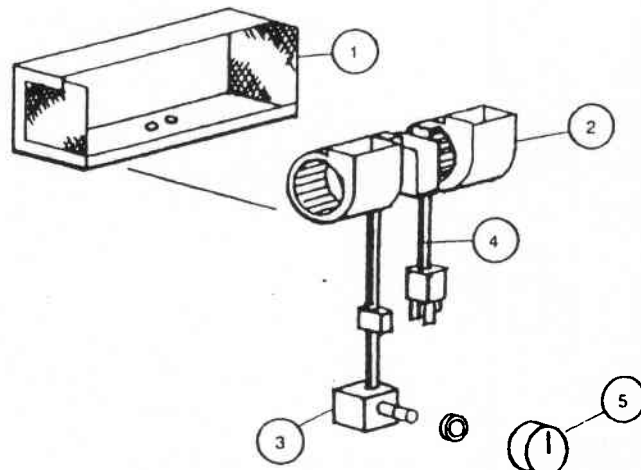
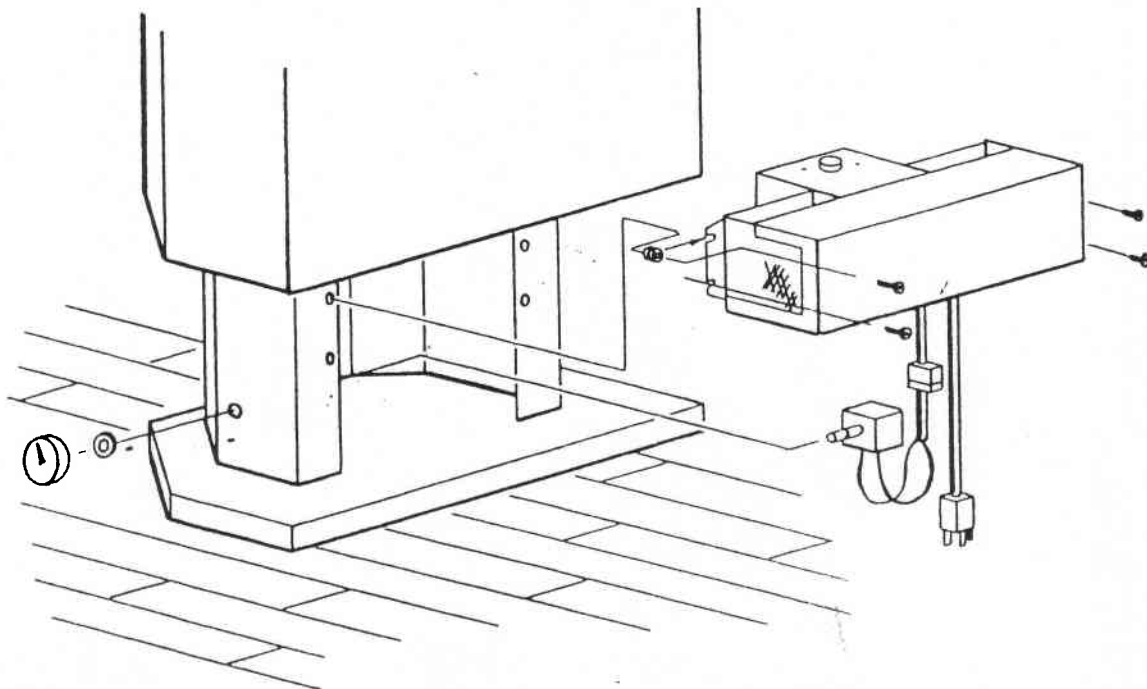


FIG. A

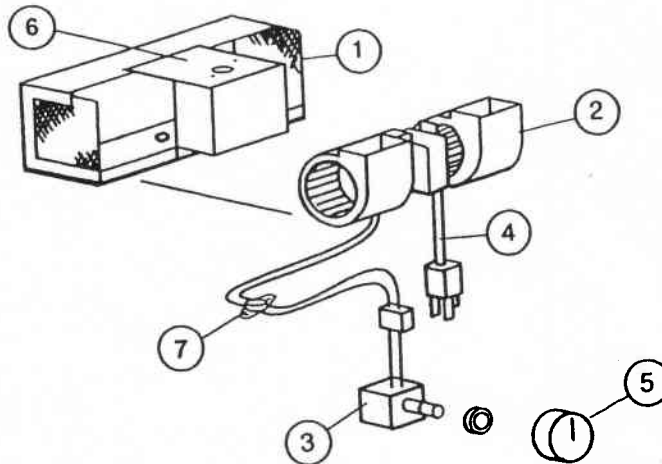
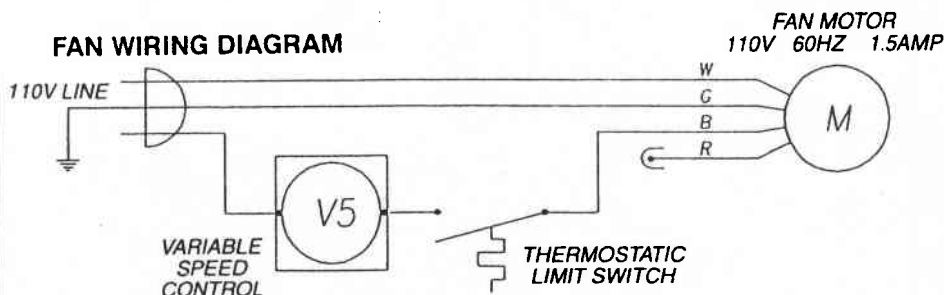


fan installation instructions (optional fan kit #S31233)

1. Remove fan from carton.
2. Using four screws provided attach fan to stove as shown above. Be sure to install rubber gromets as shown above.
3. Speed control switch is to be inserted into pedestal, as shown, and tighten until secure.
4. Snap variable speed control knob into place.
5. Plug fan in.

CAUTION - "Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation."
"Verify proper operation after servicing."

FAN WIRING DIAGRAM



WARNING
Electrical Grounding Instructions

This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle.

Do not cut or remove the grounding prong from this plug.

Original wiring that is replaced must be replaced with wire having at least a 105°C temperature rating.

Key#	Part Number	Description	Qty.
1	S41225	Fan Case Weld't	1
2	S41059	Motor Assy	1
3	S14003	Speed Control Switch	1
4	S14005	Power Cord	1
5	S14009	Speed Control Knob	1
6	S14060	Limit Switch	1

TROUBLE SHOOTING - G601

With proper installation and maintenance, your new Gas Fireplace should provide years of trouble-free service. If you do experience a problem, refer to the trouble shooting guide shown below. This guide will assist a qualified service person in the diagnosis of problems and the corrective action to be taken.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
I. Spark ignitor will not light after repeated triggering of red button.	A. Defective ignitor (no spark at electrode).	1. Check for spark at electrode and pilot; if no spark and electrode wire is properly connected, replace ignitor.
	B. Defective pilot or misaligned electrode at pilot (spark at electrode).	1. Using a match, light pilot. If pilot lights, turn off pilot and trigger the red button again. If pilot lights, an improper gas/air mixture caused the improper lighting and a longer purge period is recommended. If pilot will not light - check gap at electrode and pilot - should be 1/8 inch to have a strong spark. If OK, replace pilot.
	C. No gas or low gas pressure.	1. Check remote shut off valves from fireplace. Usually there is a valve near the fireplace and sometimes there is a valve near the main. There can be more than one (1) valve between the fireplace and main. 2. Low pressure can be caused by a variety of situations such as a bent line, too narrow diameter of pipe or even low line pressure. Check for kinked lines. If none, consult with plumber or gas supplier.
	D. No L.P. in tank.	1. Check L.P. (Propane). You may be out of fuel.
II. Pilot will not stay lit after carefully following lighting instructions.	A. Defective thermocouple.	1. Check pilot flame. Must impinge on thermocouple. Clean and or adjust pilot for maximum flame impingement on thermocouple.
	B. Defective valve.	1. Replace valve - (it is not field serviceable).
	C. Plugged burner orifice.	1. Check burner orifice for stoppage and remove.
	D. Defective thermopile.	1. Replace thermopile.

TROUBLE SHOOTING - G601

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
III. Frequent pilot outage problem.	A. Pilot flame may be too low or blowing (high), causing the pilot safety to drop out.	1. Clean and adjust pilot flame for maximum flame impingement on thermocouple.
IV. Pilot and main burner go out while being in operation.	A. Bad Thermopile.	1. Replace if necessary.
	B. No L.P. in tank.	1. Check L.P. (Propane) tank. You may be out of fuel.
	C. Bad thermocouple.	1. Replace if necessary.
V. Glass soots.	A. Flame impingement on logs.	1. Adjust the log set so that the flame does not impinge on it.

WARRANTY INFORMATION
KEEP THIS WARRANTY

MODEL # _____
SERIAL # _____
DATE PURCHASED _____

Always specify model and serial numbers when communicating with the factory. We reserve the right to amend these specifications at any time without notice. The only warranty applicable is our standard written warranty. We make no other warranty, expressed or implied.

TWO YEAR LIMITED WARRANTY

This Warranty gives you specific legal rights and you may also have other rights that vary in each State or Province.

1. The manufacturer warrants to the original consumer/purchaser that, subject to reasonable and necessary maintenance, your new gas appliance (exclusive of exterior paint, pipe and accessories) will be free from defects in materials and workmanship for two years from the date of purchase and while under original ownership.
This warranty is extended only to the original retail purchaser.
This warranty covers only the cost of part(s) required to restore this heater to proper operating condition. Warranty part(s) MUST be obtained through authorized dealers/distributors of Century Heating who will provide original factory replacement parts. Failure to use original factory replacement parts voids this warranty. The heater MUST be installed by a qualified installer in accordance with all local codes and instructions furnished with the unit.
2. This warranty is effective only as to new gas appliances which have not been altered, changed, repaired or treated since shipment from the factory, unless such modifications have been authorized in writing by the manufacturer.
3. This warranty does not apply to parts that are not in original condition because of normal wear and tear or parts that fail or become damaged as a result of misuse, accidents, lack of proper maintenance or defects caused by improper installation. Travel, diagnostic cost, labor, transportation and any and all such other costs related to repairing a defective heater will be the responsibility of the owner.
4. To make claim under this warranty, the original consumer purchaser shall notify the dealer from whom the appliance was purchased, in writing, within ten (10) days of the discovery of the alleged defect and provide proof of purchase. If the dealer is unavailable, then notice must be delivered to Century Heating at the address below.
5. The manufacturer shall, at its option, repair or replace the defective parts, after inspection and determination of the defect. The purchaser shall be liable for all costs and incidental expenses in respect of shipping, labour or transportation for warranty service. The manufacturer shall not be liable for any incidental, consequential, special or indirect damages arising out of a defect or a breach of this warranty.

Some States and Provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.



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